



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.



Philosophical Transactions

Please note: Due to an error in the print volume, the page numbering in this article may contain either page numbering skips, or page numbering repetitions, or both. However, the article content is presented in its entirety and in correct reading order.

Please click on "Next Page" (at the top of the screen) to begin viewing the article.

I.

An account of Books, Geography Anatomiz'd, or the Compleat Geographical Grammar. Being a short and exact Analysis of the whole Body of Modern Geography, after a new and curious Method. The Second Edition, much improv'd and enlarged. By Pat. Gordon. M. A. F. R. S.

THE principal Design of this excellent Treatise, is (in the Words of its Ingenious Author) *To present the younger sort of our Nobility and Gentry with a Compendious, Pleasant, and Methodical Tract of MODERN GEOGRAPHY, that most useful Science which highly deserves their Regard in a peculiar manner.* It consists of two Parts, whereof the first gives a *General*, and the second a *particular View* of the *Terraqueous Globe*.

In the *General View*, the Author has (1.) Illustrated, by way of Definition, Description, or Derivation, such *Terms* as are necessary for a right Understanding of the *Globe*, adding Analytical Tables of the following Treatise. (2.) He hath given in such pleasant *Problems*, as are performable by it, and the manner of their Performance. (3.) He hath subjoyn'd divers plain Geographical *Theorems*, clearly deducible from the foregoing *Problems*. (4.) He has advanc'd some *Paradoxical Positions* in Matters of Geography, yet equally certain with the *Theorems*. Lastly, He has taken a *Transient Survey* of the whole Surface of the *Earth*, as it consists of *Land and Water*. Next in the *particular View* he

has given the Maps, and a clear Prospect of all remarkable Countries, and their Inhabitants, particularly as to their.

1. *situation*, both for Latitude and Longitude, for the more readily knowing them.
2. *Extent*, or true Dimension in *English Miles*, from *East to West*, and from *South to North*.
3. *Division*, into the more general Parts, and how such Parts are readily found.
4. *Sub-division*, into particular Provinces, how these are most readily found.
5. Chief Towns, giving their modern Names, and how those Towns are most readily found.
6. *Names*, as called by the Ancients, or by some more Modern, with the Etymology of the *English Name*.
7. *Air*, as to its Temperature, as also the *Antipodes* of that part of the Globe.
8. *Soil*, and proper *Climat* of the Country; it's natural Product, and the length of the Days and Nights.
9. *Commodities*, there produced.
10. Rarities, either of Nature, or of Art, especially Monuments of Antiquity.
11. *Arch-bishopricks*, their Number and Names.
12. *Bishopricks*, their Number and Names.
13. *Universities*, their Number and Names.
14. *Manners*, that is, the natural *Genius* and Temper of the People, and their most noted Customs.
15. *Language*, it's Composition and Propriety, and in many the *Pater Noster* as a *Specimen* thereof.
16. *Government*, it's Nature or Constitution, and the publick Courts of Judicature.
17. *Arms*, how Blazoned, and the proper *Mottos*.
18. *Religion*, the chief Tenets thereof, and when, and by whom Christianity was planted, if at all.

To these two Parts is annex'd an *Appendix*, comprehending the *European Plantations*, and *Factories* in *Asia*, *Africa*

Africa, and America; as also some reasonable Proposals concerning the Propagation of the blessed Gospel in all Pagan Countries.

I I.

The Celestial World Discover'd, or Conjectures concerning the Inhabitants, Plants, and Productions of the Worlds in the Planets. Written in Latin by Christianus Huygens, and Inscribed to his Brother Constantine Huygens, late Secretary to His Majesty King William. in 8vo. with 5 Copper Cuts of Illustration.

THE Ingenious Author of this Discourse, having spent much Time, and taken great Pains in making Celestial Observations and Discoveries by Telescopes of the largest Sizes, and other Instruments, and having moreover acquainted himself with the latest and best Observations and Discoveries made by other Modern Astronomers; and having well weighed and considered the Import and Significancy of them, comes in this Book to acquaint his Brother the Heer *Constantine Huygens*, (who was also a great lover of these Inquirys, and who was the Person that furnisht him with the excellent Telescopes he made use of, wrought with his own Hand, wherein he had for his Diversion acquired an extraordinary Art and Dexterity, unknown to any besides himself) and by the Publication of it, if he thought fit, likewise to acquaint the Learned World, what upon the Result of all, his Opinion and Belief was con-

cerning the Form, Structure, and Fabrick of the Universe, or the whole visible World, and the Reasons and Arguments that induced him thereunto, which he hopes may seem reasonable enough to Men Skilled in Geometrical, and Astronomical Sciences ; such as he wishes his Readers may be. But because he was well aware that many of them might be Persons of differing Qualifications, and such as could not, or would not understand the Cogency of them, or from Prepossession would endeavour to Carp at, and make Arguments against the whole Doctrin there delivered, therefore he endeavours to Enumerate and Obviate such as are most likely to be produced for that end : The first of which he conceives, may be of such as are ignorant of Mathematical Knowledge, who will be apt to represent it as a Whimsey only of a disturbed Brain, they thinking it impossible to measure, or any wise to be ascertain'd of the Magnitudes and Distances of the Celestial Bodies, and as to the Earth's Motions they look on them as Fictions, and not capable of being proved : To such he answers, that he does not assert those things as absolutely demonstrated, but rather as probable Conjectures, and that he leaves every one free to judge of them as they please. And to such as may think them useleſs, since they are only Conjectural, he answers, upon the same account, all other Physical Knowledge may be rejected, since that also for the most part is but Conjectural ; and yet we know the Studies of those things are very commendable, and afford great Pleasure, Satisfaction, and Benefit, even to such as think them Contradictory to Holy Writ, to suppose other Worlds, or Animals then those of the Earth ; because such are not mention'd in the History of the Creation. He thinks there has been enough said to shew that the Description of the Creation in the Bible, was only with Relation to the Earth, and not at all with Respect to the other Parts of the World, then what were here
visi-

visible ; nor can it be Detrimental to Religion, but will, be rather, as he conceives, a means to make *Men* have a lesser Esteem of these Earthly Things, since they are but small, with Respect to the other World, and to have a greater Veneration and Adoration of that wonderful Wisdom and Providence which is universally displayed through the whole Fabrick of the Universe. As to the Form and Disposition of the Whole, and of the Parts of this Universe, he agrees with the System of *Copernicus* ; for the better Explication of which he hath added two Figures, the first of which shews their Order and Positions, and the second their Comparative *Magnitudes*. And because by reason of the smallness of these Figures, the true Proportions could not be sufficiently express'd, he has added a particular Explication, expressing in Numbers the Distances of their Orbs from the Sun in the Center, and the Times of their Periods in them: Next of their particular *Magnitudes*, and so of their Proportions to each other, and to the Body of the Sun. And since it hereby appears that the Earth is moved about the Sun, as well as the other Planets, (which all the best of the Modern Astronomers do now believe, and none but such as are of a more dull Apprehension, or are otherwise over-powered by their Superiors, do deny, or make any scruple positively to assert) and that those Planets are Enlight'ned by the Sun in the same manner as the Earth is, and some of them as h and z have their own Moons, or Secundary Planets moving about them, sometimes Eclipsing them, and Eclipsed by them as the Earth also is by its Moon, and that some of them are much bigger, as well as some others smaller then the Earth ; and so that the *Magnitudes* are not proportion'd, either according to their Order or their Distance ; since also they are observed to have the same kinds of *Motion*, both Annual and Diurnal, therefore he thinks it very probable that they do resemble the Earth also in other Qualifications ; for that

we have no Argument to the contrary why they should not, nor is this way of Reasoning from the Agreement in some to alike Agreement of other precarious, since 'tis the most usual Method of discovering the insensible Parts of the World by their Similitude to the more Sensible, as in Anatomy we judge of the Parts of a Creature, by the Similitude we find they have to the Parts of some other before known. From this Topick therefore he thinks we may safely conclude that the other Planets have solid Bodies, and Gravity towards their Centers, as the Earth hath since we find them to have the same Figure, and the same Motions, and the same Concomitants, and that they have Atmospheres and Air, and Water, &c. And since it would be too great a Depreciating of them, and a too much Over-valuing of the Earth, to suppose them not to be likewise Adorned with the more admirable Productions and Fabricks of Plants, and Animals, which more evidently manifest the Wisdom and Design of the Divine Architect, which we find the Earth to be Enriched and Beautified with. But to suppose them only lifeless Lumps of Matter : as Earth, Water, &c. Or vast Deserts, barren Mountains, Rocks, &c. This he says would sink them too much below the Earth in Beauty and Dignity, which this Method of Reasoning will in no wise permit. He conceives therefore we must suppose, and believe them to have Animals as well as the Earth ; and so of necessity Plants for their Nourishment. And these possibly not much different from those we have, both as to their outward Form, and as to their internal Structure, and as to their Method of Production, or Propagation, and their Increase or Growth. And that if there be any Difference, most probably it must arise from the differing Distances of those Globes from the Sun, which is more likely to affect the Matter than the Form. Wherefore though we can-
not

not be ascertain'd what these Differences are, yet we may reasonably conclude, that they are Composed of Solids and Fluids; for that the Production and Nutrition of these Animals must be made by Fluids; and thence also that the Parts of them for Motion must be somewhat like those of Terrestrial Animals; whether Beasts, Fishes, Birds, or Insects; that is, they must have Legs, Finns, Wings, &c. Though not exactly the same with ours, since the Fluids may be more various, as to their Number, and as to their Density, and as to their Rarification and Conglaciation, some of these Globes being much further off, and somewhat nearer to the Sun, and its powerful Rays. And so the Fluids of $\text{\texttt{h}}$ and $\text{\texttt{u}}$ may not be so apt to be Frozen, nor those of $\text{\texttt{f}}$ and $\text{\texttt{y}}$ to be Rarified into Vapours, neither of which would destroy the Form and Use of Water for the Vegetation of Plants.

And because though we should allow these Globes these Ornaments and Furniture, yet though we suppose them deprived of the principal Production and Master-piece of all, and for whose Use and Benefit all the rest seem to be made, we should too much Exalt and Over-value this Globe of the Earth, and too much Depreciate all the other. Therefore he thinks we must suppose them to have Rational Animals also, and that those have all those Senses, and other necessary Organs for Reasoning that Men have here, and that they do use them, and have procur'd thereby the same Advantages, and Improvement of that Faculty, that in the like Cases Men have done here upon the Earth. And since we find that Fire in many Cases is of great Use, he thinks that we must suppose it common to all the other Globes also. But to judge of the Magnitude, or exact Shape of those Animated Bodies in the other Planets, by the Magnitude of those Globes, he thinks we have no Medium to

to direct us, since we find that Nature does not restrain it self to such Rules of Measure as might seem the best to us. But since the Principal Use of Reason, which he supposes to be the same as here seems to be for the Contemplation of the Works of the Creatour, and the Improvement of Arts and Sciences, he conceives that those Inhabitants do not only Contemplate and observe the Stars, but that they have also made an Astronomy, and Cultivated such Arts as conduce thereunto; as those of Geometry, Arithmetick, Opticks, &c. and that of Writing, by which they may Register their Observations to their Posterity. And thence he concludes they must have Hands and Legs, or such like Limbs, and an erect Face by which they may be enabled to perform such Actions as are necessary for those Purposes, and in general he thinks it probable that they may have many Arts and Sciences, the same with ours, though possibly not all, but yet others instead thereof, not less Valuable. Nor would they seem less Wonderful and Pleasant to us, could we be Transported thither by some powerful Genius, which since he despairs of, he endeavours in his second Book to give us his Judgment concerning the Phœnomena of the Heavens, what they might appear to one of us supposed to be there in one of them, which he Founds on the Knowledge we now have of them, as to Magnitude, Distance, &c. And here, after he has Censured Father Kircher's Iter Extaticum (a Book Publish'd on the like Subject) he begins to tell what must be the Phœnomena of the Sun, and Planets, seen in *it*, and next what the same must be seen in *Venus*, which since with a sixty Foot Telescope, and all his Diligence, he could never discover to have Spots, or differently illuminated Parts, as are visible in *Mars*, *Jupiter*, and *Saturn*: He Conjectures that the Reflection of Light from it is made by the Atmosphere about it, and not by the Body it self. Thirdly, What they are in *Mars*, which he makes much less

then *Venus*, or the Earth, tho' without a Moon, and fur-
ther distant from the Sun. And *Fourtby*, What in *Ju-
piter* and *Saturn*, which so vastly exceed all the other
three, both for their Magnitude, and for their Concomi-
tants, *Jupiter* having 4, and *Saturn* 5, together with a
Ring, whereas the Earth has but one, and the other 3
none at all. Upon Explaining the Phenomena of these,
he more largely insists, and has therein Summ'd up all
the latest and best Phenomena that have been observed
concerning them, as to the 5 Moon's about $\frac{1}{4}$, tho' he
confesseth that he had not seen the 2 innermost of them,
yet he Confides in the Observations of Monsieur *Cassini*,
and suspects also that there may be more yet discovered,
when the Glasses of 170, and 210 Foot made the most
Accurate by his Brother, shall come to be used for that
Purpose. But what to determin concerning the Furni-
ture, or Nature of all these Moon's, though he thinks
them to be much the same with that of our Moon, Yet
as he conceives, being not sufficiently inform'd by Ob-
servation, that the Moon has the like Furniture as the
Earth has, he is at a stand, and knows not well what
to determin concerning them. He grants we can plain-
ly discover that the Moon has Mountains and Valleys,
and other Asperities as the Earth has; but as he conceives
there are no Seas nor Rivers, for that he thinks it more
probable that those Spots which others have supposed
Seas, are only great Plains of a darker Colour, his Reason
is, for that there are divers inequalities to be discovered
in them the same as in other Parts of its Surface, and
from thence he imagines there can be no Rivers, and
consequently no Water, nor any Atmosphere, or Air.
These are the Difficulties which perplex him, which if he
could have removed, and that he could have been assured
there had been Water, he could have allow'd it all the o-
ther Priviledges, and with *Xenophanes* have furnish'd it
with Inhabitants, Cities, &c. But as he conceives of

t, he can neither allow it to have Animals, no, nor Plants. And yet at last he says, 'tis not improbable but that it may have Plants and Animals too, but they must have another sort of Nourishment. Now by this Censure of the Moon he has pass'd the same upon all the other Moons, to wit the Concomitants of π and \natural , which he judges to be of the same Nature, and to expose the same part always towards their primary Planet, as the Moon does to the Earth, by a Phenomenon of one of the Moons of \natural , the Consideration of which Suggested to him that the Phenomena of the Heavens must be to their Inhabitants, if they could have any, and for all the rest gives an Instance of those of the Moon. Then he proceeds to consider the Sun and the fix'd Stars, promising the Magnificence of the Solar Systeme; this he does by Words, because Schemes he could not render 'em large enough to represent the proportionate Magnitudes of the Orbs to the Minutencies of the Plenary Bodies; for the Orb of *Saturn* would require an Area of 360 Foot in Diameter, and that of the Earth, one of 36 Foot to draw them proportionate to the Globes, for the Orb of the Earth is 12000 times the Diameter of the Earth's Ball. And consequently the distance of the Earth from the Sun will be above 17 Thousand, or 17 Millions of *German Miles*. To make the vastness of these Distances the more conceivable, he Computes them by the Times that a Cannon-bullet (suppos'd to pass a hundred Fathom in a second of Time) would spend in passing those Spaces, whence he concludes it would be 25 Years passing to the Sun from the Earth, 125 from π , and 250 from \natural . Then he proceeds to consider the Body of the Sun, where he is *nonplus'd*, as about the Moon; for he is not satisfy'd whether it be a solid, or fluid Body, but he inclines to think it a Fluid. Next, he knows not what to think of Animals, or Vegetables in it, since there can be nothing like any thing we know, by reason of

of the continual Fire and Heat which would consume all such as we have here. He thinks therefore it might be made for the Illuminating and Enlivening of the Parts of the other Planets. And as for the fix'd Stars he conceives them to be so many Suns, and to be dispers'd in the vast Expansum of Heaven at various Distances, and each of them to have a proper System, and Planets moved about them. And tho' it be impossible for us ever to see those Planets, by reason of their vast Distance, yet from the Analogy that is between the Sun and Stars, we may judge of the planetary Systems about them, and of the Planets themselves too, which probably are like the planetary Bodies about the Sun, (that is) that they have Planets and Animals, nay, and Rational ones too, as great Admirers and Observers of the Heavens as any on the Earth. This Represents to us a wonderful Scheme of the prodigious vastness of the Heavens; so that the distance between the Earth and the Sun, though of 17 Millions of *German Miles*, is almost nothing to the distance of a fix'd Star. And because of the Difficulty in making Observations for this Purpose, in the common Ways, he therefore proposes a new Method of his own for this Purpose, which he also explains, and by that one may the better conceive the vastness of the distance of one of the nearest, as for Instance from the Sun; which by this way he proves to be 27664 times the Distance of the Sun from the Earth; and to make this Distance yet more comprehensible, he makes use of the former Explication, by the time that a Cannon-bullet moved as swift, as hath been just now Explained. Wherefore multiplying 27664 by 25, he finds that a Cannon-bullet moving a hundred Fathom in a Second would be 700000 Years in its Journey betwixt us and the fix'd Stars; here by the way he makes some Reflections on *Des Cartes's Vortices*, and explains his own Sentiments concerning the Present State of the Universe, nor will

he trouble his Mind about their beginning, or how made, as knowing it to be out of the reach of human Knowledge or Conjecture.

Upon the whole Matter you will here find the Ingenious Author's Opinion concerning the Universe with all the Arguments for it drawn from the most accurate Observations that have been hitherto made that are Pertinent thereunto. The only Failure, seems to some to be in his Opinion concerning the Moon and Secondary Planets. Upon which Subject, there may perhaps be shortly Published a Brief Discourse of one who is of a somewhat differing Sentiment.

III. *Orang-Outang, sive Homo Sylvestris: Or the Anatomy of a Pygmie, compared with that of a Monkey, an Ape, and a Man. To which is added a Philological Essay concerning the Pygmies, the Cynocephali, the Satyrs and Sphinges of the Ancients, &c. By Edward Tyson, M. D. Fellow of the Colledge of Physicians, and of the Royal Society, &c. London, in 4to. 1699.*

THE Ingenious Author of this Treatise, having often obliged the World with his Anatomical Discoveries and Observations on several curious Subjects, of which there is a Catalogue at the end of this Tract, has here given us a very Ample, as well as Accurate Account of this strange, and indeed surprizing Animal, a Creature rarely, if ever seen by our World, at least in this Age, of which I shall give a short, and but imperfect Abstract; for to take notice of all that is Remarkable, were to Transcribe the whole, and refer the more Curious to the Perusal of the Discourse it self, well Meriting

ting the Time of the most Knowing and Learned Reader, who will find ample Satisfaction therein.

And first in the Preface our Author gives an Account of his Undertaking, *v.z.* To give a Comparative Survey of this Animal, with a *Monkey*, an *Ape*, and a *Man*, shewing wherein they agree, and in what Particulars they differ from each other, and in the Philological Essay, he proves there were such Creatures as the Ancients called *Pygmies*, *Cynocephali*, &c. And that these were all either Apes or Monkies, and not Men. As to this *Crang-Outang* which was brought from *Angola* in *Africa*, but taken up higher in the Country, he begins with the several Names by which it has been called by several Writers, and observing the great Confusion in Authors Treating of the Ape, or Monkey-kind, he obliges himself to give a more particular Description of this, and tho' he observes it in many things more agreeable to a Man, than any of the Ape kind, yet he by no means allows it to be Humane, but a Brute-animal, *sui generis*. And before he comes to the particular Description of it, he presents us with a Text in *Aristotle*, describing the Ape-kind, which he *Englishes*, and gives a Comment thereon, shewing wherein the present Subject agrees, or differs from it, and then proceeds to give an exact Account of the outward Shape and Size of the Creature dissected, which was 26 Inches high, and in this he is very particular in the Proportions of every part, and takes notice of the Figures and Descriptions given by *Tulpus*, *Bontius*, *Gesner*, &c. Wherein they agree, or differ from this, all which Figures he gives us a Copy of, and quotes at large several Authors, Ancient and Modern that have mentioned, or treated of it, and so comes to the Anatomy of its several Parts. I shall remark some few, of them I thought more observable, as that its Skin was whitish, and adhered pretty firmly, and had the *Membrana Adiposa* next to the Skin, as in *Min*, and under that the

Carnosa. The Seminal Vessels passed between the two Coats of the *Peritoneum* to the *Scrotum*, as in Man, whence our Author Argues, Nature designed this Creature to go erect, since 'tis otherwise in all *Quadrupedes*. The *Omentum* was fastened as in Man, different from what the *Parisians* found in the Monkey. Treating of the *Ductus alimentalis*, which he makes the *Proprium quarto* mode of an Animal; he takes occasion to recommend the more Nice Examination of the intermediate Species of Beings between Plants and Animals, as the *Zoophite*, of which he once met with one that had a sensible Contraction, or Motion of some Parts, but nothing like the Structure of any Parts or Organs like an Animal. The Stomach was like a Man's, there was no *Bezoar* Stones in it, which *Bontius* says are sometimes found in the Stomach's of Apes. The Word *Bezzar* he observes comes from the *Persian Pa-zabar, contra venenum*, and recommends it as an excellent Medicine, and quotes the same *Bontius* for the Stone bred in the Bladder of Men, as an extraordinary Diuretic, and Sudorific. Treating of the Intestines he finds the *Apendedicula Vermiformis*, as 'tis in Men, tho' tis wanting in Apes and Monkeys. The Liver likewise the same as in Man, and different from the Monkeys, as was also the *Ductus Hepaticus*, the *Spleen, Pancreas, Glandulae Renales*. And speaking of the *Kidneys*, he hints at the Reason why Bleeding has been Successful in a Suppression of the Urine, the *Tubuli Urinarii* being overpressed by the Fulness of the Blood-vessels that run between them. The *Aorta, and Cava* were as in Man. The *Testes* were not in a *Scrotum*, but more Contracted by the outward Skin nearer to the *Os Pubis*, by the sides of the *Penis*, whence he queries whether the having them so placed, may contribute to the Salaciousness of the Ape-kind, of which he gives a remarkable Relation of two, and proceeds to the several Parts and Vessels of the *Testes*, which were conformable to those in Man. The *Penis* dif-

differed, had no *Frænum*, nor is he certain whether it had any *Glans*.

As to the middle *Venter*, the *Lungs* had five Lobes in Colour, Substance, Situation, and all Circumstances like a *Man's*; as was the *Trachea*; and the *Pericardium* was fastened to the *Diaphragm*, just as 'tis in *Man*, which is usual in Brutes. Whence he raises another Argument that Nature designed it a *Biped*, and gives the Reason why 'tis so fastened to assist the *Diasbole* of the *Diaphragm* in Expiration, which otherwise the Liver and Stomach would draw down too much into the *Abdomen*. The *Heart*, &c. much the same as in *Man*. The *Larinx*, *Cartilages*, *Muscles*, *Os Hyoides*, and all the Organs of Speech the same exactly, as 'tis in *Man*, excepting the Tongue, and the Rough of the Mouth.

Coming to the Head, he observes the *Brain* in all Respects, exactly resembling a *Man's*. From the Agreement of which Parts he argues that the nobler Faculties in the Mind of *Man* must have a higher Principle, and that Matter Organized could never produce them.

In the next place our Author examines the *Bones*, and by the way touches at the Dispute between *Vesalius*, and others in Relation to *Galen*, whether he ever dissected human Bodies, or only Apes. Then he inserts *Riolanus*'s Treatise, Intituled, *Simile Osteologia*, &c. Upon each Chapter, whereof he makes his particular Remarks, shewing wherein the *Orang-Outang* agreed more with a *Man* than a *Monkey*, in more than 20 Particulars, and ends this Discourse with an account of the *Muscles*, for which he owns himself obliged to *Mt. Cowper*, as likewise for the designing all the Figures which are done with the greatest Accuracy, and curiously Engraved on eight large Plates, Representing the Creature both before and behind, then 2 Fig. likewise with the Skin off, shewing all the *Muscles*; then the *skeleton*, and lastly the several *Viscera*.

He concludes this Discourse with a Recapitulation of 48 Particulars, wherein the *Orang Outang* more resembled a *Man* than *Apes* and *Monkies* do, and 34 wherein it differed from a *Man*, and more resembled the *Ape* and *Monkey* kind.

We come now to the *Philological Essay* concerning the *Pygmies* of the *Ancients*, wherein our Author shews that in all Probability this Creature gave the first Occasion of this Story, which he traces up to the *Original*, and finds *Homer* to be the first that mentions it, and their fighting with the *Cranes*, of which *Geranomachia* he gives the Reason. He Cites the several *Authors*, *Ancient* and *Modern*, that have any where mentioned them; and upon the whole concludes that the *Pygmies* were not a diminutive Race of *Mankind*, as has been generally thought but this Creature, which he proves at large, Instancing and Explaining the several *Accounts* of them in *Homer*, *Athenaeus*, *Ælian*, *Pomponius Mela*, *Pliny*, *Onescritus*, *Ctesias*, *Herodotus*, *Hellenicus*, *Aristotle*, *Strabo*, *Nonnosus*, *Albertus Magnus*, *Isaac Casaubon*, *Gesner*, *Jo. Talentinus*, *Olaus Magnus*, *Bartholine*, &c. Commenting upon the particular Treatise of the last upon this Subject. In the next place, coming to Treat of the *Cynocephali* of the *Ancients*, he shews these likewise to have been *Apes* only, and not *Men*, and in this, as well as the *Pygmies*, and other Particulars shews *Ctesias* to be a very tabulous Writer, giving the History of this Animal from the *Ancients*, with his own Remarks thereon, and so proceeds to Treat of the *Satyrs*, *Pan*, *Ægypian*, *Sylvanus*, *Silenus*, and the *Nymphæ*, all which he shews were several *Species* of *Apes*, or *Monkeys*. In the last place he speaks of the *Sphinges*, which he says are a sort of *Ape*, or *Monkey* bred in *Æthiopia*; these he describes out of *Pliny*, *Agatharchides*, *Diodorus Siculus*, *Philostorgius*, and *Phil. Camerarius*, who saw one of them at *Verona*, and so Concludes this Learned and Ingenious Treatise.

London, Printed for *S. Smith*, and *R. Walford* at the *Feathers* in *St. Paul's-church-yard*, 1699.